

L Number	Hits	Search Text	DB	Time stamp
35	1290	(base and drain and source and emitter and (channel with concentration))	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2005/01/04 17:53
36	132	((base and drain and source and emitter and (channel with concentration))) and (concentration with constant)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2005/01/04 17:53
37	10	(US-6060731-\$ or US-6501128-\$ or US-5536961-\$ or US-5489787-\$ or US-6303410-\$ or US-6001678-\$ or US-5895939-\$ or US-4967243-\$ or US-4441117-\$ or US-6670658-\$).did.	USPAT	2005/01/04 17:53
38	129	((base and drain and source and emitter and (channel with concentration))) and (concentration with constant)) not ((US-6060731-\$ or US-6501128-\$ or US-5536961-\$ or US-5489787-\$ or US-6303410-\$ or US-6001678-\$ or US-5895939-\$ or US-4967243-\$ or US-4441117-\$ or US-6670658-\$).did.)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2005/01/04 17:53
39	93	((base and drain and source and emitter and (channel with concentration))) and (concentration with constant)) not ((US-6060731-\$ or US-6501128-\$ or US-5536961-\$ or US-5489787-\$ or US-6303410-\$ or US-6001678-\$ or US-5895939-\$ or US-4967243-\$ or US-4441117-\$ or US-6670658-\$).did.) and (collector and gate and (insulat\$4 or dielectric))	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2005/01/04 17:54
40	69	((base and drain and source and emitter and (channel with concentration))) and (concentration with constant)) not ((US-6060731-\$ or US-6501128-\$ or US-5536961-\$ or US-5489787-\$ or US-6303410-\$ or US-6001678-\$ or US-5895939-\$ or US-4967243-\$ or US-4441117-\$ or US-6670658-\$).did.) and (collector and gate and (insulat\$4 or dielectric))) and (impurity adj concentration)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2005/01/04 17:56
41	68	((base and drain and source and emitter and (channel with concentration))) and (concentration with constant)) not ((US-6060731-\$ or US-6501128-\$ or US-5536961-\$ or US-5489787-\$ or US-6303410-\$ or US-6001678-\$ or US-5895939-\$ or US-4967243-\$ or US-4441117-\$ or US-6670658-\$).did.) and (collector and gate and (insulat\$4 or dielectric))) and (impurity adj concentration)) and electrode	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2005/01/04 17:56
42	48	((base and drain and source and emitter and (channel with concentration))) and (concentration with constant)) not ((US-6060731-\$ or US-6501128-\$ or US-5536961-\$ or US-5489787-\$ or US-6303410-\$ or US-6001678-\$ or US-5895939-\$ or US-4967243-\$ or US-4441117-\$ or US-6670658-\$).did.) and (collector and gate and (insulat\$4 or dielectric))) and (impurity adj concentration)) and electrode) and (trench or buried)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2005/01/04 17:56

-	1	"20040089886"	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/07/11 19:56
-	2	"6670658"	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/07/11 19:56
-	5	"6495871"	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/07/11 19:56
-	21	Hattori-hidetaka.in.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/07/11 19:56
-	0	6670658.URPN.	USPAT	2004/07/11 19:56
-	9266	("IGBT" or (insulat\$3 adj gate adj bibolar adj transistor) and (channel with (concentration with constant or equal)))	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/07/11 19:56
-	38	("IGBT" or (insulat\$3 adj gate adj bibolar adj transistor)) and (channel with (concentration with (constant or equal)))	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/07/11 19:56
-	48	("IGBT" or (insulat\$3 adj gate adj bibolar adj transistor)) and (channel with (concentration with (constant or equal\$5 or similar or equival\$4)))	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/07/11 19:56
-	38	((("IGBT" or (insulat\$3 adj gate adj bibolar adj transistor)) and (channel with (concentration with (constant or equal\$5 or similar or equival\$4)))) not ("20040089886" "6670658" "6495871" Hattori-hidetaka.in. (("5895939").PN.) (((("5895939").PN.) and ((impurity adj concentration) or concentration)) (("4967243" "5471072" "5543637").PN.) (("3391311" "4441117" "4521795" "4605948" "4641174" "4783693").PN.) 4967243.URPN. (Hattori-hidetaka.in. and (base and drain and (source or emitter) and (impurity adj concentration))) 6495871.URPN.)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/07/11 19:57
-	23	((("IGBT" or (insulat\$3 adj gate adj bibolar adj transistor)) and (channel with (concentration with (constant or equal\$5 or similar or equival\$4)))) not ("20040089886" "6670658" "6495871" Hattori-hidetaka.in. (("5895939").PN.) (((("5895939").PN.) and ((impurity adj concentration) or concentration)) (("4967243" "5471072" "5543637").PN.) (("3391311" "4441117" "4521795" "4605948" "4641174" "4783693").PN.) 4967243.URPN. (Hattori-hidetaka.in. and (base and drain and (source or emitter) and (impurity adj concentration))) 6495871.URPN.)) and (gate and (collector or drain) and base and (emitter or source))	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/07/11 19:57

-	15	((("IGBT" or (insulat\$3 adj gate adj bibolar adj transistor)) and (channel with (concentration with (constant or equal\$5 or similar or equival\$4)))) not ("20040089886" "6670658" "6495871" Hattori-hidetaka.in. (("5895939").PN.) ((("5895939").PN.) and ((impurity adj concentration) or concentration)) (("4967243" "5471072" "5543637").PN.) (("3391311" "4441117" "4521795" "4605948" "4641174" "4783693").PN.) 4967243.URPN. (Hattori-hidetaka.in. and (base and drain and (source or emitter) and (impurity adj concentration))) 6495871.URPN.)) and (gate and (collector or drain) and base and (emitter or source))) and (channel with (impurity adj concentration)) ("5895939").PN.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/07/11 19:57
-	1		USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/07/11 19:57
-	1	((("5895939").PN.) and ((impurity adj concentration) or concentration))	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/07/11 19:57
-	3	("4967243" "5471072" "5543637").PN.	USPAT	2004/07/11 19:57
-	6	("3391311" "4441117" "4521795" "4605948" "4641174" "4783693").PN.	USPAT	2004/07/11 19:57
-	16	4967243.URPN.	USPAT	2004/07/11 19:57
-	6	Hattori-hidetaka.in. and (base and drain and (source or emitter) and (impurity adj concentration))	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/07/11 19:57
-	1	"20010026977"	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/07/11 19:57
-	1	"5895939".PN.	USPAT	2004/07/11 19:57
-	1	"5895939".PN.	USPAT	2004/07/11 19:57
-	1	6495871.URPN.	USPAT	2004/07/11 19:57
-	12	(((((("IGBT" or (insulat\$3 adj gate adj bibolar adj transistor)) and (channel with (concentration with (constant or equal\$5 or similar or equival\$4)))) not ("20040089886" "6670658" "6495871" Hattori-hidetaka.in. (("5895939").PN.) ((("5895939").PN.) and ((impurity adj concentration) or concentration)) (("4967243" "5471072" "5543637").PN.) (("3391311" "4441117" "4521795" "4605948" "4641174" "4783693").PN.) 4967243.URPN. (Hattori-hidetaka.in. and (base and drain and (source or emitter) and (impurity adj concentration))) 6495871.URPN.)) and (gate and (collector or drain) and base and (emitter or source))) and (channel with (impurity adj concentration))) and trench	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/07/11 20:16
-	13	("4672407" "4990975" "5151762" "5173435" "5250449" "5378911" "5545908" "5701023" "5914503" "6037628" "6169299" "6238980" "6303410").PN.	USPAT	2004/07/11 19:59
-	1	6501128.URPN.	USPAT	2004/07/11 20:00

-	4	("5173435" "6001678" "6380586" "6501128").PN.	USPAT	2004/07/11 20:01
-	0	6605858.URPN.	USPAT	2004/07/11 20:03
-	12	((("4672407" "4990975" "5151762" "5173435" "5250449" "5378911" "5545908" "5701023" "5914503" "6037628" "6169299" "6238980" "6303410").PN.) and concentration	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/07/11 20:03
-	8	((("4672407" "4990975" "5151762" "5173435" "5250449" "5378911" "5545908" "5701023" "5914503" "6037628" "6169299" "6238980" "6303410").PN.) and concentration) and (channel with (concentration))	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/07/11 20:04
-	3	(((((("IGBT" or (insulat\$3 adj gate adj bipolar adj transistor)) and (channel with (concentration with (constant or equal\$5 or similar or equal\$4)))) not ("20040089886" "6670658" "6495871" Hattori-hidetaka.in. (("5895939").PN.) ((("5895939").PN.) and ((impurity adj concentration) or concentration)) ((("4967243" "5471072" "5543637").PN.) ((("3391311" "4441117" "4521795" "4605948" "4641174" "4783693").PN.) 4967243.URPN. (Hattori-hidetaka.in. and (base and drain and (source or emitter) and (impurity adj concentration))) 6495871.URPN.)) and (gate and (collector or drain) and base and (emitter or source))) and (channel with (impurity adj concentration))) not ((((((("IGBT" or (insulat\$3 adj gate adj bipolar adj transistor)) and (channel with (concentration with (constant or equal\$5 or similar or equal\$4)))) not ("20040089886" "6670658" "6495871" Hattori-hidetaka.in. (("5895939").PN.) ((("5895939").PN.) and ((impurity adj concentration) or concentration)) ((("4967243" "5471072" "5543637").PN.) ((("3391311" "4441117" "4521795" "4605948" "4641174" "4783693").PN.) 4967243.URPN. (Hattori-hidetaka.in. and (base and drain and (source or emitter) and (impurity adj concentration))) 6495871.URPN.)) and (gate and (collector or drain) and base and (emitter or source))) and (channel with (impurity adj concentration))) and trench)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/07/11 20:13
-	48	((("IGBT" or (insulat\$3 adj gate adj bipolar adj transistor)) and (channel with (concentration with (constant or equal\$5 or similar or equal\$4))))	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/07/11 20:18

-	26	<p>((("IGBT" or (insulat\$3 adj gate adj bibolar adj transistor)) and (channel with (concentration with (constant or equal\$5 or similar or equival\$4)))) not ("20040089886" "6670658" "6495871" Hattori-hidetaka.in. (((("IGBT" or (insulat\$3 adj gate adj bibolar adj transistor)) and (channel with (concentration with (constant or equal\$5 or similar or equival\$4)))) not ("20040089886" "6670658" "6495871" Hattori-hidetaka.in. (("5895939").PN.) (((("5895939").PN.) and ((impurity adj concentration) or concentration)) (("4967243" "5471072" "5543637").PN.) (("3391311" "4441117" "4521795" "4605948" "4641174" "4783693").PN.) 4967243.URPN. (Hattori-hidetaka.in. and (base and drain and (source or emitter) and (impurity adj concentration))) 6495871.URPN.)) and (gate and (collector or drain) and base and (emitter or source))) and (channel with (impurity adj concentration))) and trench) (("4672407" "4990975" "5151762" "5173435" "5250449" "5378911" "5545908" "5701023" "5914503" "6037628" "6169299" "6238980" "6303410").PN.) 6501128.URPN. (("5173435" "6001678" "6380586" "6501128").PN.))</p>	<p>USPAT; US-PGPUB; EPO; JPO; IBM_TDB</p>	<p>2004/07/11 20:17</p>
-	15	<p>((("IGBT" or (insulat\$3 adj gate adj bibolar adj transistor)) and (channel with (concentration with (constant or equal\$5 or similar or equival\$4)))) not ("20040089886" "6670658" "6495871" Hattori-hidetaka.in. (((("IGBT" or (insulat\$3 adj gate adj bibolar adj transistor)) and (channel with (concentration with (constant or equal\$5 or similar or equival\$4)))) not ("20040089886" "6670658" "6495871" Hattori-hidetaka.in. (("5895939").PN.) (((("5895939").PN.) and ((impurity adj concentration) or concentration)) (("4967243" "5471072" "5543637").PN.) (("3391311" "4441117" "4521795" "4605948" "4641174" "4783693").PN.) 4967243.URPN. (Hattori-hidetaka.in. and (base and drain and (source or emitter) and (impurity adj concentration))) 6495871.URPN.)) and (gate and (collector or drain) and base and (emitter or source))) and (channel with (impurity adj concentration))) and trench) (("4672407" "4990975" "5151762" "5173435" "5250449" "5378911" "5545908" "5701023" "5914503" "6037628" "6169299" "6238980" "6303410").PN.) 6501128.URPN. (("5173435" "6001678" "6380586" "6501128").PN.)) and trench</p>	<p>USPAT; US-PGPUB; EPO; JPO; IBM_TDB</p>	<p>2004/07/11 20:18</p>

-	7	((((("IGBT" or (insulat\$3 adj gate adj bibolar adj transistor)) and (channel with (concentration with (constant or equal\$5 or similar or equival\$4)))) not ("20040089886" "6670658" "6495871" Hattori-hidetaka.in. (((((("IGBT" or (insulat\$3 adj gate adj bibolar adj transistor)) and (channel with (concentration with (constant or equal\$5 or similar or equival\$4)))) not ("20040089886" "6670658" "6495871" Hattori-hidetaka.in. (("5895939").PN.) (((("5895939").PN.) and ((impurity adj concentration) or concentration)) (("4967243" "5471072" "5543637").PN.) (("3391311" "4441117" "4521795" "4605948" "4641174" "4783693").PN.) 4967243.URPN. (Hattori-hidetaka.in. and (base and drain and (source or emitter) and (impurity adj concentration))) 6495871.URPN.)) and (gate and (collector or drain) and base and (emitter or source))) and (channel with (impurity adj concentration))) and trench) (("4672407" "4990975" "5151762" "5173435" "5250449" "5378911" "5545908" "5701023" "5914503" "6037628" "6169299" "6238980" "6303410").PN.) 6501128.URPN. (("5173435" "6001678" "6380586" "6501128").PN.))) and trench) and ((source or emitter) and base and (collector or drain))	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/07/11 20:24
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-	8	<p> ((((("IGBT" or (insulat\$3 adj gate adj bibolar adj transistor)) and (channel with (concentration with (constant or equal\$5 or similar or equival\$4)))) not ("20040089886" "6670658" "6495871" Hattori-hidetaka.in. ((((((("IGBT" or (insulat\$3 adj gate adj bibolar adj transistor)) and (channel with (concentration with (constant or equal\$5 or similar or equival\$4)))) not ("20040089886" "6670658" "6495871" Hattori-hidetaka.in. (((("5895939").PN.) (((("5895939").PN.) and ((impurity adj concentration) or concentration)) (("4967243" "5471072" "5543637").PN.) (("3391311" "4441117" "4521795" "4605948" "4641174" "4783693").PN.) 4967243.URPN. (Hattori-hidetaka.in. and (base and drain and (source or emitter) and (impurity adj concentration))) 6495871.URPN.)) and (gate and (collector or drain) and base and (emiiter or source))) and (channel with (impurity adj concentration))) and trench) (("4672407" "4990975" "5151762" "5173435" "5250449" "5378911" "5545908" "5701023" "5914503" "6037628" "6169299" "6238980" "6303410").PN.) 6501128.URPN. (("5173435" "6001678" "6380586" "6501128").PN.))) and trench) not ((((((("IGBT" or (insulat\$3 adj gate adj bibolar adj transistor)) and (channel with (concentration with (constant or equal\$5 or similar or equival\$4)))) not ("20040089886" "6670658" "6495871" Hattori-hidetaka.in. ((((((("IGBT" or (insulat\$3 adj gate adj bibolar adj transistor)) and (channel with (concentration with (constant or equal\$5 or similar or equival\$4)))) not ("20040089886" "6670658" "6495871" Hattori-hidetaka.in. (((("5895939").PN.) (((("5895939").PN.) and ((impurity adj concentration) or concentration)) (("4967243" "5471072" "5543637").PN.) (("3391311" "4441117" "4521795" "4605948" "4641174" "4783693").PN.) 4967243.URPN. (Hattori-hidetaka.in. and (base and drain and (source or emitter) and (impurity adj concentration))) 6495871.URPN.)) and (gate and (collector or drain) and base and (emiiter or source))) and (channel with (impurity adj concentration))) and trench) (("4672407" "4990975" "5151762" "5173435" "5250449" "5378911" "5545908" "5701023" "5914503" "6037628" "6169299" "6238980" "6303410").PN.) 6501128.URPN. (("5173435" "6001678" "6380586" "6501128").PN.))) and trench) and ((source or emitter) and base and (collector or drain))) </p>	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/07/11 20:24
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-	7	<p> ((((("IGBT" or (insulat\$3 adj gate adj bibolar adj transistor)) and (channel with (concentration with (constant or equal\$5 or similar or equival\$4)))) not ("20040089886" "6670658" "6495871" Hattori-hidetaka.in. ((((((("IGBT" or (insulat\$3 adj gate adj bibolar adj transistor)) and (channel with (concentration with (constant or equal\$5 or similar or equival\$4)))) not ("20040089886" "6670658" "6495871" Hattori-hidetaka.in. (("5895939").PN.) (((("5895939").PN.) and ((impurity adj concentration) or concentration)) (("4967243" "5471072" "5543637").PN.) (("3391311" "4441117" "4521795" "4605948" "4641174" "4783693").PN.) 4967243.URPN. (Hattori-hidetaka.in. and (base and drain and (source or emitter) and (impurity adj concentration))) 6495871.URPN.)) and (gate and (collector or drain) and base and (emitter or source))) and (channel with (impurity adj concentration))) and trench) (("4672407" "4990975" "5151762" "5173435" "5250449" "5378911" "5545908" "5701023" "5914503" "6037628" "6169299" "6238980" "6303410").PN.) 6501128.URPN. (("5173435" "6001678" "6380586" "6501128").PN.))) and trench) not ((((((("IGBT" or (insulat\$3 adj gate adj bibolar adj transistor)) and (channel with (concentration with (constant or equal\$5 or similar or equival\$4)))) not ("20040089886" "6670658" "6495871" Hattori-hidetaka.in. ((((((("IGBT" or (insulat\$3 adj gate adj bibolar adj transistor)) and (channel with (concentration with (constant or equal\$5 or similar or equival\$4)))) not ("20040089886" "6670658" "6495871" Hattori-hidetaka.in. (("5895939").PN.) (((("5895939").PN.) and ((impurity adj concentration) or concentration)) (("4967243" "5471072" "5543637").PN.) (("3391311" "4441117" "4521795" "4605948" "4641174" "4783693").PN.) 4967243.URPN. (Hattori-hidetaka.in. and (base and drain and (source or emitter) and (impurity adj concentration))) 6495871.URPN.)) and (gate and (collector or drain) and base and (emitter or source))) and (channel with (impurity adj concentration))) and trench) (("4672407" "4990975" "5151762" "5173435" "5250449" "5378911" "5545908" "5701023" "5914503" "6037628" "6169299" "6238980" "6303410").PN.) 6501128.URPN. (("5173435" "6001678" "6380586" "6501128").PN.))) and trench) and ((source or emitter) and base and (collector or drain))) and (impurity adj concentration) </p>	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/07/11 20:24
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-	2	((((("IGBT" or (insulat\$3 adj gate adj bibolar adj transistor)) and (channel with (concentration with (constant or equal\$5 or similar or equival\$4)))) not ("20040089886" "6670658" "6495871" Hattori-hidetaka.in. (((("IGBT" or (insulat\$3 adj gate adj bibolar adj transistor)) and (channel with (concentration with (constant or equal\$5 or similar or equival\$4)))) not ("20040089886" "6670658" "6495871" Hattori-hidetaka.in. (("5895939").PN.) (("5895939").PN.) and ((impurity adj concentration) or concentration)) (("4967243" "5471072" "5543637").PN.) (("3391311" "4441117" "4521795" "4605948" "4641174" "4783693").PN.) 4967243.URPN. (Hattori-hidetaka.in. and (base and drain and (source or emitter) and (impurity adj concentration))) 6495871.URPN.)) and (gate and (collector or drain) and base and (emiiter or source))) and (channel with (impurity adj concentration))) and trench) (("4672407" "4990975" "5151762" "5173435" "5250449" "5378911" "5545908" "5701023" "5914503" "6037628" "6169299" "6238980" "6303410").PN.) 6501128.URPN. (("5173435" "6001678" "6380586" "6501128").PN.))) and trench) not (((("IGBT" or (insulat\$3 adj gate adj bibolar adj transistor)) and (channel with (concentration with (constant or equal\$5 or similar or equival\$4)))) not ("20040089886" "6670658" "6495871" Hattori-hidetaka.in. (((("IGBT" or (insulat\$3 adj gate adj bibolar adj transistor)) and (channel with (concentration with (constant or equal\$5 or similar or equival\$4)))) not ("20040089886" "6670658" "6495871" Hattori-hidetaka.in. (("5895939").PN.) (("5895939").PN.) and ((impurity adj concentration) or concentration)) (("4967243" "5471072" "5543637").PN.) (("3391311" "4441117" "4521795" "4605948" "4641174" "4783693").PN.) 4967243.URPN. (Hattori-hidetaka.in. and (base and drain and (source or emitter) and (impurity adj concentration))) 6495871.URPN.)) and (gate and (collector or drain) and base and (emiiter or source))) and (channel with (impurity adj concentration))) and trench) (("4672407" "4990975" "5151762" "5173435" "5250449" "5378911" "5545908" "5701023" "5914503" "6037628" "6169299" "6238980" "6303410").PN.) 6501128.URPN. (("5173435" "6001678" "6380586" "6501128").PN.))) and trench) and ((source or emitter) and base and (collector or drain))) and (impurity adj concentration)) and (concentration near2 (equal\$4 or constant or substantial\$4))	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/07/11 20:51
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-	8	((((("IGBT" or (insulat\$3 adj gate adj bibolar adj transistor)) and (channel with (concentration with (constant or equal\$5 or similar or equival\$4)))) not ("20040089886" "6670658" "6495871" Hattori-hidetaka.in. ((((((("IGBT" or (insulat\$3 adj gate adj bibolar adj transistor)) and (channel with (concentration with (constant or equal\$5 or similar or equival\$4)))) not ("20040089886" "6670658" "6495871" Hattori-hidetaka.in. (("5895939").PN.) (((("5895939").PN.) and ((impurity adj concentration) or concentration)) (("4967243" "5471072" "5543637").PN.) (("3391311" "4441117" "4521795" "4605948" "4641174" "4783693").PN.) 4967243.URPN. (Hattori-hidetaka.in. and (base and drain and (source or emitter) and (impurity adj concentration))) 6495871.URPN.)) and (gate and (collector or drain) and base and (emitter or source))) and (channel with (impurity adj concentration))) and trench) (("4672407" "4990975" "5151762" "5173435" "5250449" "5378911" "5545908" "5701023" "5914503" "6037628" "6169299" "6238980" "6303410").PN.) 6501128.URPN. (("5173435" "6001678" "6380586" "6501128").PN.))) and trench) not ((((((("IGBT" or (insulat\$3 adj gate adj bibolar adj transistor)) and (channel with (concentration with (constant or equal\$5 or similar or equival\$4)))) not ("20040089886" "6670658" "6495871" Hattori-hidetaka.in. ((((((("IGBT" or (insulat\$3 adj gate adj bibolar adj transistor)) and (channel with (concentration with (constant or equal\$5 or similar or equival\$4)))) not ("20040089886" "6670658" "6495871" Hattori-hidetaka.in. (("5895939").PN.) (((("5895939").PN.) and ((impurity adj concentration) or concentration)) (("4967243" "5471072" "5543637").PN.) (("3391311" "4441117" "4521795" "4605948" "4641174" "4783693").PN.) 4967243.URPN. (Hattori-hidetaka.in. and (base and drain and (source or emitter) and (impurity adj concentration))) 6495871.URPN.)) and (gate and (collector or drain) and base and (emitter or source))) and (channel with (impurity adj concentration))) and trench) (("4672407" "4990975" "5151762" "5173435" "5250449" "5378911" "5545908" "5701023" "5914503" "6037628" "6169299" "6238980" "6303410").PN.) 6501128.URPN. (("5173435" "6001678" "6380586" "6501128").PN.))) and trench) and ((source or emitter) and base and (collector or drain)))	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/07/11 20:51
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